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1 A methodology for analyzing the performance of authentication protocols

 Alan Harbitter, Daniel A. Menascé

November 2002 ACM Transactions on Information and System Security (TISSEC),
Volume 5 Issue 4

Publisher: ACM

Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 229, Citation Count: 0

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically ...

Keywords: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

2 Protecting applications with transient authentication

 Mark D. Corner, Brian D. Noble

May 2003 MobiSys '03: Proceedings of the 1st international conference on Mobile systems, applications and services

Publisher: ACM

Full text available:  pdf(294.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 84, Citation Count: 3

How does a machine know who is using it? Current systems authenticate their users infrequently, and assume the user's identity does not change. Such *persistent authentication* is inappropriate for mobile and ubiquitous systems, where associations ...

3 Decentralized user authentication in a global file system

 Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available:  pdf(144.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 136, Citation Count: 4

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

4 **On-line e-wallet system with decentralized credential keepers**

Stig Frode Mjølsnes, Chunming Rong

February 2003 *Mobile Networks and Applications*, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(240.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 178, Citation Count: 1

We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential ...

Keywords: digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

5 **Decentralized user authentication in a global file system**

 Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

December 2003 *ACM SIGOPS Operating Systems Review*, Volume 37 Issue 5

Publisher: ACM

Full text available:  pdf(144.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 136, Citation Count: 4

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

6 **Fast authentication methods for handovers between IEEE 802.11 wireless LANs**

 M. S. Bargh, R. J. Hulsebosch, E. H. Eertink, A. Prasad, H. Wang, P. Schoo

October 2004 *WMASH '04: Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots*

Publisher: ACM

Full text available:  pdf(257.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 374, Citation Count: 1

Improving authentication delay is a key issue for achieving seamless handovers across networks and domains. This paper presents an overview of fast authentication methods

when roaming within or across IEEE 802.11 Wireless-LANs. Besides this overview, ...

Keywords: WLAN, authentication, handover, inter/intra-domain, seamless

7 [A smartcard for authentication in WLANs](#)

 Marc Loutrel, Pascal Urien, Guy Pujolle

October 2003 LANC '03: Proceedings of the 2003 IFIP/ACM Latin America conference on
Towards a Latin American agenda for network research

Publisher: ACM

Full text available:  pdf(333.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 175, Citation Count: 0

Wireless LANs based on the IEEE 802.11b standard have spread very quickly over the past few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One of the most important issues is the authentication of a terminal ...

Keywords: authentication, smartcard, wireless LANs

8 [TinyPK: securing sensor networks with public key technology](#)

 Ronald Watto, Derrick Kong, Sue-fen Cuti, Charles Gardiner, Charles Lynn, Peter Kruus

October 2004 SASN '04: Proceedings of the 2nd ACM workshop on Security of ad hoc and sensor networks

Publisher: ACM

Full text available:  pdf(294.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 406, Citation Count: 9

Wireless networks of miniaturized, low-power sensor/actuator devices are poised to become widely used in commercial and military environments. The communication security problems for these networks are exacerbated by the limited power and energy of the ...

Keywords: TinyOS, authentication, cryptography, diffie-hellman, encryption, key management, public key (PK), rivest shamir adelman (RSA), sensor networks

9 [A system for authenticated policy-compliant routing](#)

 Barath Raghavan, Alex C. Snoeren

August 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 4

Publisher: ACM

Full text available:  pdf(219.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 49, Citation Count: 6

Internet end users and ISPs alike have little control over how packets are routed outside of their own AS, restricting their ability to achieve levels of performance, reliability, and utility that might otherwise be attained. While researchers have proposed ...

Keywords: authentication, capabilities, overlay networks, source routing

10 [Network layer access control for context-aware IPv6 applications](#)

Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies

July 2003 Wireless Networks, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers

Full text available:  pdf(3.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 136, Citation Count: 1

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will ...

Keywords: authentication, mobile IPv6, public access point, security, wireless Internet

11 An access control model for dynamic client-side content

 Adam Hess, Kent E. Seamons
June 2003 SACMAT '03: Proceedings of the eighth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available:  pdf(608.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 102, Citation Count: 0

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources are usually static, and an access control policy ...

Keywords: access control, authentication, credentials, trust negotiation

12 A system for authenticated policy-compliant routing

 Barath Raghavan, Alex C. Snoeren
August 2004 SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(219.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 49, Citation Count: 6

Internet end users and ISPs alike have little control over how packets are routed outside of their own AS, restricting their ability to achieve levels of performance, reliability, and utility that might otherwise be attained. While researchers have proposed ...

Keywords: authentication, capabilities, overlay networks, source routing

13 COCA: A secure distributed online certification authority

 Lidong Zhou, Fred B. Schneider, Robbert Van Renesse
November 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 4
Publisher: ACM

Full text available:  pdf(448.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 103, Citation Count: 26

COCA is a fault-tolerant and secure online certification authority that has been built and deployed both in a local area network and in the Internet. Extremely weak assumptions characterize environments in which COCA's protocols execute correctly: no ...

Keywords: Byzantine quorum systems, Certification authority, denial of service, proactive secret-sharing, public key infrastructure, threshold cryptography

14 Mobility helps security in ad hoc networks

 Srdjan Čapkun, Jean-Pierre Hubaux, Levente Buttyán

June 2003 MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing

Publisher: ACM

Full text available:  pdf(228.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 317, Citation Count: 20

Contrary to the common belief that mobility makes security more difficult to achieve, we show that node mobility can, in fact, be useful to provide security in ad hoc networks. We propose a technique in which security associations between nodes are established, ...

Keywords: ad hoc networks, mobility, security associations

15 Middleware and web services for the collaborative information portal of NASA's Mars exploration rovers mission

Elias Sinderson, Vish Magapu, Ronald Mak

October 2004 Middleware '04: Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(429.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 62, Citation Count: 0

We describe the design and deployment of the middleware for the Collaborative Information Portal (CIP), a mission critical J2EE application developed for NASA's 2003 Mars Exploration Rover mission. CIP enabled mission personnel to access data and images ...

16 Using trust and risk in role-based access control policies

 Nathan Dimmock, András Belokosztolszki, David Eyers, Jean Bacon, Ken Moody

June 2004 SACMAT '04: Proceedings of the ninth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available:  pdf(222.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 135, Citation Count: 6

Emerging trust and risk management systems provide a framework for principals to determine whether they will exchange resources, without requiring a complete definition of their credentials and intentions. Most distributed access control architectures ...

Keywords: OASIS, SECURE, access control, risk, trust

17 An approach to certificate path discovery in mobile Ad Hoc networks

 He Huang, Shyhtsun Felix Wu

October 2003 SASN '03: Proceedings of the 1st ACM workshop on Security of ad hoc and

sensor networks

Publisher: ACM

Full text available:  pdf(146.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 140, Citation Count: 1

Public key certificates prove validity and authenticity of their ownership and possibly other properties. Certificate path discovery is the critical process for public key verification in hierarchical public key infrastructure (PKI) diagrams. This process ...

Keywords: MANET, certificate path discovery, public key infrastructure, security

18 A model of OASIS role-based access control and its support for active security

 Jean Bacon, Ken Moody, Walt Yao

November 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4

Publisher: ACM

Full text available:  pdf(352.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 267, Citation Count: 24

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

19 Virtual enterprise access control requirements

M. Coetzee, Jan H. P. Eloff

September 2003 SAI CSIT '03: Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  pdf(126.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 165, Citation Count: 1

Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology ...

Keywords: B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

20 Secure password-based authenticated key exchange for web services

 Liang Fang, Samuel Meder, Olivier Chevassut, Frank Siebenlist

October 2004 SWS '04: Proceedings of the 2004 workshop on Secure web service

Publisher: ACM

Full text available:  pdf(395.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 127, Citation Count: 1

This paper discusses an implementation of an authenticated key-exchange method

rendered on message primitives defined in the WS-Trust and WS-SecureConversation specifications. This IEEE-specified cryptographic method (AuthA) is proven-secure for password-based ...

Keywords: authenticated key exchange, password, security, web services

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